Water Quality Measurement Instrument

- **Product type**
  Attended, Unattended

- **Parameters measured**
  Temperature, Conductivity, Depth, pH, Dissolved Oxygen (LDO), Turbidity, ORP, Blue-Green Algae, Chlorophyll a, Ammonium, Nitrate, Chloride

- **Product Highlights**
  The next generation multiparameter water quality instrument

- **Interface**
  SDI-12, RS-485, RS-232, TTY, USB

The HYDROLAB HL7 multiparameter sonde offers a versatile, durable and practical solution to the day to day needs of monitoring programs for both simple and complex deployments. With a large sensor suite, it is able to thrive in demanding environmental conditions for long term continuous and profile monitoring.

Bio-fouling is minimized when equipped with the central cleaning brush and performance is maximized with an advanced power management system. It has a temperature sensor, seven external sensor ports and an optional internal depth sensor.

It helps our customers to correctly log data autonomously and easily integrate into real time telemetry systems.
# Technical Data

## Hydrolab HL7 - Multiparameter Sonde

### Sensor Ports
- 9 sensor ports available

### Dimensions
- Diameter: 8.9 cm (3.5 in.) without rubber bumpers; 9.8 cm (3.85 in.) with rubber bumpers
- Length: 66.4 cm (26.1 in.)

### Weights
- 4.5 kg (10 lb) with four Dcell batteries, storage/calibration cup with no liquid

### Power Requirements
- 6...24 VDC (12 VDC nominal) applied to the communications module, 12 VDC: 2.0 W average, 24 W peak

### Battery Life*
- 90 days

### Operating Temperature
- -5 to 50 °C (23 to 122 °F), nonfreezing

### Storage Temperature
- 1 to 50 °C (34 to 122 °F)

### Depth
- 200 m (656 ft) maximum

### Data Memory
- 4 GB

### Tensile strength
- (Maximum) Mooring cap: 68 kg (150 lb); deployment cable: 227 kg (500 lb)

### Communications
- Communications module: USB, SDI12, RS232 Modbus, RS485 Modbus and RS232 TTY

### Sampling Rate
- 1 Hz minimum, (once per second)